DOCUMENT RESUME

ED 453 056 SE 064 578

| | |
|---|---|
| TITLE | DO-IT (Disabilities, Opportunities, Internetworking, Technology) Programs and Resources. |
| INSTITUTION | Washington Univ., Seattle. |
| SPONS AGENCY | Seattle Foundation, WA.; Washington Office of the State Superintendent of Public Instruction, Olympia.; Fund for the Improvement of Postsecondary Education (ED), Washington, DC.; National Science Foundation, Arlington, VA. |
| PUB DATE | 1998-00-00 |
| NOTE | 20p.; Additional grants from NEC Foundation of America, Telecommunications Funding of Partnership, US WEST Communications, Visio Corporation, and an NSF Award for Mentoring. |
| AVAILABLE FROM | DO-IT, University of Washington, Box 354842, Seattle, WA 98195-4842. Tel: 206-685-DOIT; Tel: 888-972-DOIT (Toll Free); Fax: 206-221-4171; e-mail: doit@u.washington.edu; Web site: http://www.washington.edu/doit/. |
| PUB TYPE | Guides - Non-Classroom (055) -- Reference Materials - Bibliographies (131) |
| EDRS PRICE | MF01/PC01 Plus Postage. |
| DESCRIPTORS | *Disabilities; Elementary Secondary Education; Internet; Mathematics Education; Science Instruction; Teaching Methods; Technology Education; *Videotape Cassettes |
| IDENTIFIERS | *Disability Awareness |

ABSTRACT

This booklet describes the DO-IT Program, designed to improve opportunities for students with disabilities in science, mathematics, technology, and engineering. DO-IT develops materials and sponsors programs to increase the number of students pursuing these fields at the high school and college levels. DO-IT stands for Disabilities, Opportunities, Internetworking, and Technology. The booklet lists publications, videotapes, training materials, and electronic resources available through the DO-IT program and includes ordering information. (CFB)

Reproductions supplied by EDRS are the best that can be made
from the original document.

# DO-IT

# Programs and Resources

PERMISSION TO REPRODUCE AND DISSEMINATE THIS MATERIAL HAS BEEN GRANTED BY

S. Brogstahler

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

U.S. DEPARTMENT OF EDUCATION
Office of Educational Research and Improvement
EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

☒ This document has been reproduced as received from the person or organization originating it.

☐ Minor changes have been made to improve reproduction quality.

• Points of view or opinions stated in this document do not necessarily represent official OERI position or policy.

ED 453 056

**Disabilities**
**Opportunities**
**Internetworking**
**Technology**

BEST COPY AVAILABLE



SECU 4578

# DO·IT

**1997 THE PRESIDENTIAL AWARD FOR EXCELLENCE IN SCIENCE, MATHEMATICS, AND ENGINEERING MENTORING**
for embodying excellence in mentoring underrepresented students and encouraging their significant achievement in science, mathematics, and engineering.

**1995 NATIONAL INFORMATION INFRASTRUCTURE AWARD - EDUCATION**
for those whose achievements demonstrate what is possible when the powerful forces of human creativity and technologies are combined.

BEST COPY AVAILABLE

# Are you:

- a student with a disability who wants to attend college and pursue a career?
- someone who wants to communicate with and encourage other people with disabilities?
- a teacher or faculty member who wants to more fully include students with disabilities in your classes?
- a student with a disability who wants to gain work experiences while still in school?
- a 2-year college student who wants to transition to a 4-year post-secondary program?
- someone who wants to learn how technology can empower people with disabilities?
- a person who wants to help people with disabilities maximize independence, productivity, and participation in all life experiences?

**If you've answered yes to any of these questions, YOU should DO-IT!**

"Some kids with disabilities have expectations that are lower than need to be. In DO-IT we try to change that."

*Sheryl Burgstahler, Ph.D.*
*DO-IT Director*

Many capable individuals with disabilities face challenges as they pursue academics and careers. They are underrepresented in many challenging and rewarding career fields, including science, engineering, mathematics, and technology. DO-IT (Disabilities, Opportunities, Internetworking, and Technology) serves to increase the participation of individuals with disabilities in challenging academic programs and careers. It promotes the use of computer and networking technologies to increase independence, productivity, and participation in education and employment.

DO-IT has received national and regional awards including the National Information Infrastructure Award in Education, the King County Adult Service Agency Award, an Outstanding Program Award from the Washington Association on Post Secondary Education Disability (WAPED), the HealthyWay Best of the Web Award, and the President's Award for Excellence in Science, Mathematics, and Engineering Mentoring of underrepresented groups. It was also showcased in the 1997 President's Summit on Volunteerism and the 1996 NSF Dynamic Partnerships invitational conference.



BEST COPY AVAILABLE

# Who Does It?

**The following people are key players on the DO-IT team.**

**DO-IT Scholars** are college-capable high school students with disabilities who are self-motivated and have leadership potential. DO-IT Scholars are loaned computers, modems, software, and adaptive technology for use in their homes. They learn to use the Internet to access information and to communicate with others. DO-IT Scholars gain valuable academic, career, and personal insight by communicating electronically with each other and with DO-IT Mentors. DO-IT Scholars attend two live-in summer study programs at the University of Washington and participate in work-based learning experiences. They experience college life and prepare for success in college and careers.

**DO-IT Pals** are high school students with disabilities who participate in an electronic community to support their academic and career goals. They provide their own computer systems and Internet access, usually through their home or school.

**DO-IT Ambassadors** are DO-IT Scholar high school graduates who continue to support DO-IT efforts, participate in the electronic community, and mentor younger Scholars and Pals.

**DO-IT Campers** are participants in selected summer camps for children and youth with disabilities. DO-IT staff travel to these camps to teach Internet and college transition skills.

**DO-IT Mentors** include college students, faculty, and professionals in a wide variety of career fields. Many have disabilities themselves. Mentors help younger DO-IT participants succeed in college and employment as they communicate via electronic mail and during program activities.

**DO-IT Staff and Volunteers** coordinate programs, electronic communications, research and dissemination.

# DO-IT Workshops, Presentations, & Events

**DO-IT sponsors programs and delivers presentations and workshops to enhance the lives of people with disabilities throughout the world. DO-IT activities are hosted at conferences, universities, K-12 schools, corporations, state agencies, and professional organizations.**

**Adaptive Technology** — information about and demonstrations of adaptive computer technologies are available to people who have disabilities. A college credit course is offered over the Internet.

**College Transition** — helping pre-college students with disabilities, parents, teachers, and service providers develop college preparation and success strategies.

**Disability Awareness for Teachers/Faculty/Staff** — creative and practical approaches for ensuring access to educational opportunities for all students.

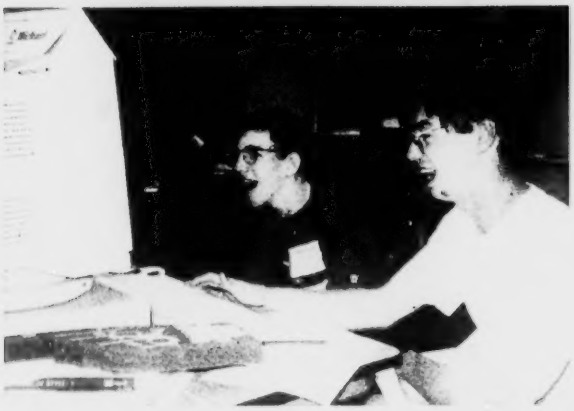
**Library and Lab Access** — how to make libraries, computer labs, and science labs accessible to people with disabilities.

**Access to Employment** — making cooperative education programs, internships, and other employment opportunities accessible to people with disabilities.

**Universal Design** — how World Wide Web (WWW) and other electronic resources can be made accessible to people with disabilities.

**Electronic Communities** — how to create and sustain successful communities on the Internet.

**Tailor-Made** — presentations tailored to audiences interested in education, transition, employment, and technology for people with disabilities.



**DO-IT resources on the Internet facilitate communication and provide access to information.**

To contact staff, request publications, or ask questions about the program, send electronic mail to:

To send a message to DO-IT Scholars, DO-IT Pals, or DO-IT Mentors, send electronic mail to the appropriate address:

To discuss issues pertaining to individuals with disabilities in their pursuit of science, engineering, mathematics, and technology academic programs and careers, subscribe to the doitsem LISTPROC discussion list by sending electronic mail to *listproc@u.washington.edu*. In the message text type:

For information about DO-IT programs, publications, and resources, access DO-IT's World Wide Web home page. Topics focus on access issues for people with disabilities, including access to adaptive technology, science, mathematics, engineering, technology, and post-secondary education, and careers. Most of the printed materials listed in this publication as well as a useful set of links to other Internet resources are available at this site. Point your Web browser to:

**DO-IT distributes materials to those who wish to undertake similar activities or enhance existing school, post-secondary, and employment programs. It maintains a large collection of free publications, including those listed below.**

### DO-IT Programs

*DO-IT Programs and Resources*

*Disabilities, Opportunities, Internetworking, & Technology = DO-IT!*

*DO-IT Annual Report*

*DO-IT News*, project newsletter

*DO-IT Scholars*

*DO-IT Pals*

*DO-IT Campers*

*DO-IT Snapshots*, pictures and bios of DO-IT participants

*Guidelines for DO-IT Scholars and Ambassadors*

*Guidelines for DO-IT Summer Study Instructors*

Poster: *When it comes to science, engineering, and mathematics... we can DO-IT!*

*DO-IT Volunteer Application/Information Form*

*DO-IT Contribution Submission Form*

### Technology

*Equal Access: Computer Labs*

*Working Together: People with Disabilities and Computer Technology*

*World Wide Access*, designing accessible Web pages

*Adaptive Technology used by DO-IT Scholars*

*Resources in the UW Adaptive Technology Lab*

*Computing and Networking Services for Students with Disabilities: How do Community Colleges Measure Up?*

*Making Library Resources Accessible to People with Disabilities*

*Disability-Related Resources on the Internet*

*Opening Doors: Mentoring on the Internet*

*Peer Support: What Role Can the Internet Play?*

*Peer-to-Peer Relationships on the Internet: Advancing the Academic Goals of Students with Disabilities*

*Teaching on the Net: What's the Difference?*

*Adaptive Computer Technology,* distance learning college course via the Internet

*Enhanced Learning Through Electronic Communities: A Research Review*

*Beyond Summer: Conducting Internet Activities at Camp*

### Academics

*College: You Can DO-IT!*

*Moving On: The Two-Four College Transition*

*Distance Learning and the Information Highway*

*Funding Strategies for Students with Disabilities*

*Working Together: Faculty and Students with Disabilities*

*Working Together: Science Teachers and Students with Disabilities*

*The Winning Equation: Access + Attitude = Success in Math and Science*

### Careers

*Increasing the Representation of People with Disabilities in Science, Engineering, and Mathematics*

*It's Your Career: Work-Based Learning Opportunities for Students with Disabilities*

*Cooperative Education and Students with Disabilities*

*Finding Gold: Hiring the Best and Brightest*

# Videotapes

**Equal Access: Computer Labs** ($20)
Making computer labs accessible to people with disabilities (11 minutes).

**Working Together: People with Disabilities and Computer Technology** ($20)
Adaptive technology and computer applications for people with disabilities (14 minutes).

**World Wide Access** ($20)
Making WWW pages and other electronic resources accessible to people with disabilities (12 minutes).

**Universal Access to Computing 3-Pack** ($30)
Packaged for school/college/library technology coordinators, three videos on one videotape—*Equal Access: Computer Labs, Working Together: People with Disabilities and Computer Technology,* and *World Wide Access* (37 minutes).

**Opening Doors: Mentoring on the Internet** ($20)
Students develop supportive relationships with adult mentors on the Internet (14 minutes).

**Working Together: Science Teachers and Students with Disabilities** ($20)
Successful students with disabilities suggest ways to make science activities more accessible to students (13 minutes).

**The Winning Equation: Access + Attitude = Success in Math and Science** ($20)
Learn strategies for fully including students with disabilities in science and math activities (15 minutes).

**Camp: Beyond Summer** ($20)
How to add Internet experiences to summer camp programs for children and youth with disabilities (9 minutes).

**DO-IT Scholars** (free)
DO-IT Scholars talk about the program for high school students with disabilities (11 minutes).

**College: You Can DO-IT!** ($20)
College students with disabilities and staff share advice for success in college (14 minutes).

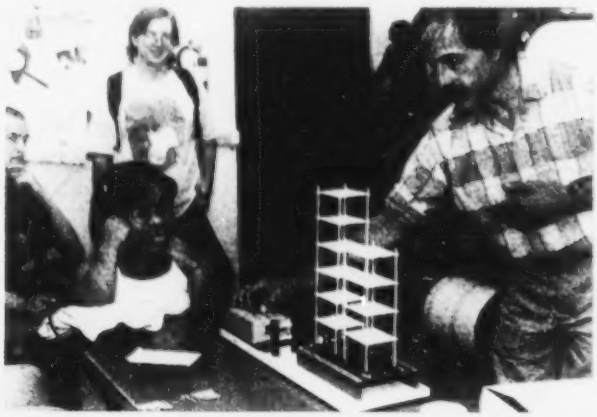
**Moving On: The Two-Four College Transition** ($20)
Tips for making a successful transition, with special guidelines for students with disabilities (12 minutes).

**Working Together: Faculty and Students with Disabilities** ($20)
College students with disabilities and faculty share their experiences (9 minutes).

**It's Your Career** ($20)
College students with disabilities gain work-based learning experiences (13 minutes).

**Finding Gold: Hiring the Best and the Brightest** ($20)
Learn how staff and employers in cooperative education, internship, and other work-based learning programs can fully include participants with disabilities (5 minutes).

**All Thirteen Video Presentations on one tape** ($100)
This cost-saving option includes all related handouts.



# Comprehensive Training Materials

**DO-IT has developed comprehensive presentation and program development materials to help people make summer camps, electronic resources, libraries, science and mathematics classes, colleges, and careers more accessible to individuals with disabilities. Most include training guidelines, handout templates, overhead transparency templates, videotapes, glossaries, and resource lists. The following products are available through DO-IT.**

### Universal Access: Electronic Resources in Libraries

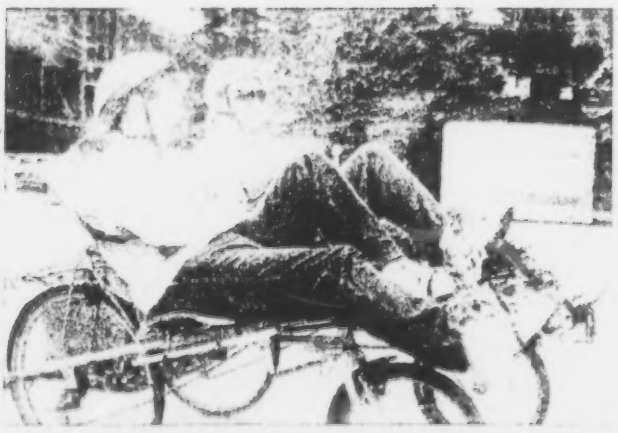
**PRESENTATION MATERIALS** ($75)

Includes the videotapes *Working Together: People with Disabilities and Computer Technology* and *World Wide Access* as well as printed support materials for delivering presentations to increase access to electronic information in libraries for people with disabilities.

### Working Together: Faculty and Students with Disabilities

**PRESENTATION MATERIALS** ($40)

Includes videotape *Working Together: Faculty and Students with Disabilities* as well as printed support materials for delivering presentations to help increase the awareness of college faculty and staff regarding the potential contributions and accommodation needs of students with disabilities.





BEST COPY AVAILABLE

### Internet at Camp: How to DO-IT

**PROGRAM DEVELOPMENT MATERIALS** ($50)

Training packet to help administrators of summer camps incorporate Internet activities into their programs. Includes the videotapes *Camp: Beyond Summer, Opening Doors: Mentoring on the Internet, Equal Access: Computer Labs, Working Together: People with Disabilities and Computer Technology,* and *World Wide Access.*

### Accommodating Students with Disabilities in Math and Science Classes

**A RESOURCE FOR TEACHERS** ($60)

Comprehensive materials and resources to help science and math teachers fully include students with disabilities in their classes and labs. Includes the videotapes *Working Together: Faculty and Students with Disabilities, Working Together: Science Teachers and Students with Disabilities, The Winning Equation: Access + Attitude = Success in Math and Science, Working Together: People with Disabilities and Computer Technology, Equal Access: Computer Labs,* and *World Wide Access, and Opening Doors: Mentoring on the Internet.*

### Career Development and Students with Disabilities

**PRESENTATION MATERIALS** ($60)

Comprehensive training materials to help staff and employers in cooperative education, internship, and other work-based learning programs accommodate participants with disabilities. Includes the videotapes *It's Your Career, Finding Gold: Hiring the Best and the Brightest, Working Together: People with Disabilities and Computer Technology,* and *Equal Access: Computer Labs.* Available 3/99.

**The University of Washington is working to increase the representation of individuals with disabilities in science, engineering, mathematics, and technology academic programs and careers through project DO-IT (Disabilities, Opportunities, Internetworking, and Technology). Primary funding for the DO-IT program is provided by the National Science Foundation and the State of Washington. Additional grants have been received from NEC Foundation of America, the Seattle Foundation, the Telecommunications Funding Partnership, U.S. Department of Education (including the Fund for the Improvement of Postsecondary Education), US WEST Communications, Visio Corporation, The Washington State Office of Superintendent of Public Instruction, and an NSF Award for Mentoring. The University of Washington also contributes substantial resources to this project.**

Additional Partners include:

DO-IT welcomes new partners to support project efforts. Consider providing mementos to participants; funding special events; providing financial stipends for travel or attendant care to students with a financial need; purchasing computers and adaptive technology for participants; funding the creation and distribution of a videotape or printed publication; providing work-based learning opportunities for students with disabilities; or funding a national or international DO-IT Scholars program. Volunteers are also needed to help with DO-IT activities. Contact the DO-IT office if you would like to contribute in any way.



BEST COPY AVAILABLE

University of Washington
College of Engineering
Computing & Communications

For further information, to be placed on the DO-IT mailing list, or to request materials in alternative format, contact:

DO-IT
University of Washington
Box 354842
Seattle, Washington 98195-4842
*doit@u.washington.edu*
*http://weber.u.washington.edu/~doit*
206-685-DOIT (voice/TTY)
888-972-DOIT (voice/TTY) Washington, outside Seattle
206-221-4171 (FAX)

509-328-9331 (voice/TTY) Spokane office

Director: Sheryl Burgstahler, Ph.D.

©1998, University of Washington

Permission is granted to copy the materials listed in this publication for educational, non-commercial purposes provided the source is acknowledged.

DO-IT
University of Washington
Box 354842
Seattle, Washington 98195-4842

Nonprofit Organization
U.S. POSTAGE
PAID
Seattle, WA
Permit No. 62

61-6591

# DO-IT Videotapes, Publications, and Training Materials

**This order form lists free and low cost resources available through DO-IT. All videotapes are open captioned. They are also available with video description by request. Printed materials are available in large print, Braille, and electronic formats by request. Permission is granted to copy DO-IT videotapes and publications for noncommercial purposes as long as credit is given to the source.**

NAME _____ POSITION _____

ORGANIZATION _____

ADDRESS _____

PHONE _____ E-MAIL _____

Submit form to DO-IT by mail, FAX, or electronic mail. If requesting materials for which there is a fee, enclose a check payable to the University of Washington (Federal ID # 91-6001537).


**CONTACT INFORMATION**

DO-IT, University of Washington, Box 354842, Seattle, WA 98195-4842

206-685-DOIT (voice/TTY), 888-972-DOIT (voice/TTY) Washington, 206-221-4171 (FAX)

*doit@u.washington.edu, http://weber.u.washington.edu/~doit*


## VIDEOTAPES

- ○ **Equal Access: Computer Labs ($20)**
- ○ **Working Together: People with Disabilities and Computer Technology ($20)**
- ○ **World Wide Access ($20)**
- ○ **Universal Access to Computing 3-Pack ($30)**
- ○ **Opening Doors: Mentoring on the Internet ($20)**
- ○ **Working Together: Science Teachers and Students with Disabilities ($20)**
- ○ **The Winning Equation: Access + Attitude = Success in Math and Science ($20)**
- ○ **Camp: Beyond Summer ($20)**
- ○ **DO-IT Scholars (Free)**
- ○ **College: You Can Do It! ($20)**
- ○ **Moving On: The Two-Four Step ($20)**
- ○ **Working Together: Faculty and Students with Disabilities ($20)**
- ○ **It's Your Career ($20)**
- ○ **Finding Gold: Hiring the Best and the Brightest ($20)**
- ○ **All thirteen video presentations on one tape ($100)**

## TRAINING MATERIALS

- ○ **Universal Access: Electronic Resources in Libraries–PRESENTATION MATERIALS ($75)**
- ○ **Working Together: Faculty and Students with Disabilities–PRESENTATION MATERIALS ($40)**
- ○ **Internet at Camp: How to DO-IT–PROGRAM DEVELOPMENT MATERIALS ($50)**
- ○ **Accommodating Students with Disabilities in Math and Science Classes–A RESOURCE FOR TEACHERS ($60)**
- ○ **Career Development and Students with Disabilities–PRESENTATION MATERIALS ($60)** Available 3/99

## DO-IT PROGRAMS

- DO-IT Programs and Resources, project overview
- Disabilities, Opportunities, Internetworking, & Technology = DO-IT!
- DO-IT Annual Report
- DO-IT News, project newsletter
- DO-IT Scholars
- DO-IT Pals
- DO-IT Campers
- DO-IT Snapshots, pictures and bios of DO-IT participants
- Guidelines for DO-IT Scholars and Ambassadors
- Guidelines for DO-IT Summer Study Instructors
- Poster: When it comes to science, engineering, and mathematics... we can DO-IT!
- DO-IT Volunteer Application/Information Form
- DO-IT Contribution Submission Form

## TECHNOLOGY

- Equal Access: Computer Labs
- Working Together: People with Disabilities and Computer Technology
- World Wide Access, designing accessible Web pages
- Adaptive Technology used by DO-IT Scholars
- Resources in the UW Adaptive Technology Lab
- Computing and Networking Services for Students with Disabilities: How do Community Colleges Measure Up?
- Making Library Resources Accessible to People with Disabilities
- Disability-Related Resources on the Internet
- Opening Doors: Mentoring on the Internet
- Peer Support: What Role Can the Internet Play?
- Peer-to-Peer Relationships on the Internet: Advancing the Academic Goals of Students with Disabilities
- Teaching on the Net: What's the Difference?
- Adaptive Computer Technology college course via the Internet
- Enhanced Learning Through Electronic Communities: A Research Review
- Beyond Summer: Conducting Internet Activities at Camp

## ACADEMICS

- College: You Can Do It!
- Moving On: The Two-Four Step
- Distance Learning and the Information Highway
- Funding Strategies for Students with Disabilities
- Working Together: Faculty and Students with Disabilities
- Working Together: Science Teachers and Students with Disabilities
- The Winning Equation: Access + Attitude = Success in Math and Science

## CAREERS

- Increasing the Representation of People with Disabilities in Science, Engineering, and Mathematics
- It's Your Career: Work-Based Learning Opportunities for Students with Disabilities
- Cooperative Education and Students with Disabilities
- Finding Gold: Hiring the Best and Brightest

BEST COPY AVAILABLE